

**Abstract**

Intermediates useful for preparing 4,6-diaminopyrimido[5,4-*d*]pyrimidines, which  
5 are themselves useful as inhibitors of signal transduction mediated by tyrosine kinases.  
The intermediates of the invention are 2-chloro-4,6-diamino-7,8-dihydropyrimido[5,4-*d*]pyrimidines, protected and unprotected 4-amino-2,6-dichloro-7,8-dihydropyrimido[5,4-*d*]pyrimidines and 4-amino-2,6,8-trichloropyrimido[5,4-*d*]pyrimidines.